Problem Solving

Task Session 2

Please before you send your task, be sure that every problem write in one file and name this file with the number of problem you solve, when you finish collect all this files of code in one folder and press this folder to change to zip file and upload it in your drive then put link of in the form thank you.

LINK FORM:
https://docs.google.com/forms/d/1PRJSUv2SRd3bNpNo8ExpeIgMUqvA94BRCW04OoIUj_0

Problem 1

Write a program that takes a value name from user and greets them with their name.

Problem 2

Write a program that takes a value n from user and prints the sum of the numbers 1 to n

Example :

Input: 5

Output: 15

Input: 8

Output: 36

Problem 3

Ask the user for a number. Depending on whether the number is even or odd, print out an appropriate message to the user.

Input: 4

Output: number is even

Input: 5

Output: number is odd

Problem 4

Given a Number N corresponding to a person's age (in days). Print his age in years, months and days, followed by its respective message "years", "months", "days".

Note: consider the whole year has **365** days and **30** days per month.

Input

Only one line containing a number N $(0 \leq N \leq 10^6)$.

Output

Print the output, like the following examples.

Examples

input
400
output
1 years 1 months 5 days

input
800
output
2 years 2 months 10 days

input
30
output
0 years 1 months 0 days

Problem 5

Given 4 numbers A, B, C and D. Print the **last 2 digits** from their **Multiplication**.

Input

Only one line containing four numbers A, B, C and D $(2 \leq A, B, C, D \leq 10^9)$.

Output

Print the **last 2 digits** from their **Multiplication**.

input
5 7 2 4
output
80

input
3 9 9 9
output
87

Note

First Example :

the Multiplication of 4 numbers is **5 * 7 * 2 * 4 = 280** so the answer will be the last 2 digits which are **80**.

Second Example :

the Multiplication of 4 numbers is **3 * 9 * 9 * 9 = 2187** so the answer will be the last 2 digits which are **87**.

Problem 6

Given a comparison symbol S between two numbers A and B. Determine whether it is ***Right*** or ***Wrong***.

The comparison is as follows: $A < B$, $A > B$, $A = B$.

Where A, B are two integer numbers and S refers to the sign between them.

Input

Only one line containing A, S and B respectively ($-100 \leq A, B \leq 100$), S can be ('<', '>','=') without the quotes.

Output

Print "Right" if the comparison is true, "Wrong" otherwise.

Examples

input
5 > 4
output
Right

input
9 < 1
output
Wrong

input
4 = 4
output
Right

Problem 7

Given a number R calculate the **area** of a circle using the following formula:

Area = $\pi * R^2$.

Note: consider π = **3.141592653**.

Input

Only one line containing the number R ($1 \leq R \leq 100$).

Output

Print the calculated **area**, with **9** digits after the decimal point.

Example

input
2.00
output
12.566370612

Problem 8

Given two numbers A and B. Print "**Yes**" if A is **greater than or equal to** B. Otherwise print "**No**".

Input

Only one line containing two numbers A and B ($0 \leq A, B \leq 100$).

Output

Print "Yes" or "No" according to the statement.

Examples

input
10 9
output
Yes

input
5 5
output
Yes

input
5 7
output
No

Problem 9

Given the boundaries of **2** intervals. Print the boundaries of their **intersection**.

Note: **Boundaries** mean the two ends of an interval which are the starting number and the ending number.

Input

Only one line contains two intervals $[l_1, r_1]$, $[l_2, r_2]$ where $(1 \leq l_1, l_2, r_1, r_2 \leq 10^9)$, $(l_1 \leq r_1, l_2 \leq r_2)$.

It's guaranteed that $l_1 \leq r_1$ and $l_2 \leq r_2$.

Output

If there is an **intersection** between these **2** intervals print its boundaries , otherwise print **-1**.

Examples

input	Copy
1 15 5 27	
output	**Copy**
5 15	

input	Copy
2 5 6 12	
output	**Copy**
-1	

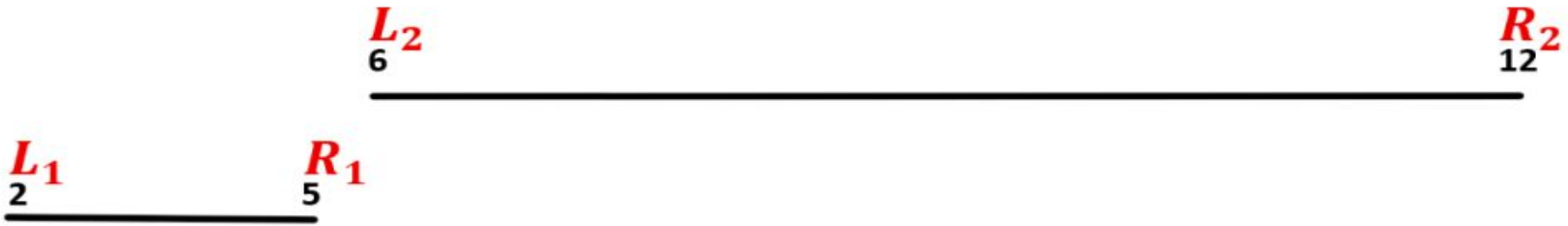
Note for Problem 9

Note

First Example :

Intersect from 5 to 15

Second Example :



There are No intersections

Problem 10

Given a number X. Print "EVEN" if the first digit of X is **even number**. Otherwise print "ODD".

For example: In **4569** the first digit is **4**, the second digit is **5**, the third digit is **6** and the fourth digit is **9**.

Input

Only one line containing a number $X\,(999 < X \leq 9999)$

Output

If the first digit is even print "$EVEN$" otherwise print "ODD".

Examples

input	Copy
4569	
output	Copy
EVEN	

input	Copy
3569	
output	Copy
ODD	